

S/N 10/800,530

Response to Office Action Dated 11/14/2005

In the Claims

A review of the claims indicates that:

A) Claims 1—21 are currently pending.

B) Claims 5, 8, 9, 14, 15, 17 and 19—21 remain in their original form.

C) Claims 1—4, 6, 7, 10—13, 16 and 18 are currently amended.

1. (Currently Amended) A method of determining a start of a scan time in a laser scanning system utilizing a scanning reflector, comprising:

directing a laser beam toward a facet of the scanning reflector so as to be reflected by the scanning reflector;

returning the laser beam reflected from the scanning reflector toward the same facet of the scanning reflector for at least one additional reflection from the scanning reflector;

detecting the laser beam reflected at least twice from the same facet of the scanning reflector; and

controlling the start of the scan time of the laser scanning system, responsive to the detection of the laser beam.

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1 2. (Currently Amended) A method according to claim 1, wherein
2 ~~transmitting the laser beam toward the scanning reflector comprises transmitting a~~
3 ~~beam the laser beam directed and returned to the facet of the scanning reflector is~~
4 separate from a modulated data beam ~~used for conveying data in the scanning~~
5 ~~system.~~

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7 3. (Currently Amended) A method according to claim [[1]]2, wherein
8 the modulated data beam reflects only once on the facet of the scanning reflector.
9 ~~detecting the laser beam comprises detecting by a detector adjacent a source of the~~
10 ~~laser beam.~~

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13 4. (Currently Amended) A method according to claim 2, wherein a
14 modulated data beam reflects once off the facet of the scanning reflector from
15 which the laser beam reflected twice. ~~detecting the laser beam comprises detecting~~
16 ~~by a detector adjacent a source of the laser beam.~~

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19 5. (Original) A method according to claim 1, wherein detecting the laser
20 beam comprises detecting by a detector included in a single housing with a source
21 of the laser beam, which housing does not encompass the scanning reflector.
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1 6. (Currently Amended) A method according to claim 2, wherein the
2 laser beam and the modulated data beams are separately generated laser beams.
3 ~~separate beams are generated by a single source and are split on their way to the~~
4 ~~scanning reflector.~~

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6 7. (Currently Amended) A method according to claim 1, wherein
7 ~~transmitting the laser beam~~ directed toward the scanning reflector ~~comprises~~
8 ~~transmitting a same beam as used for conveying data in the scanning system also~~
9 functions as the modulated data beam.
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12 8. (Original) A method according to claim 1, wherein the scanning
13 reflector comprises an oscillating reflector.

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15 9. (Original) A method according to claim 1, wherein the scanning
16 reflector comprises a rotating polygon reflector.

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19 10. (Currently Amended) A method according to claim [[5]]4, wherein
20 the scanning reflector comprises a rotating polygon reflector.
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11. (Currently Amended) A laser scanning system, comprising:
a laser beam source modulated by data;
a scanning reflector;
at least one reflector positioned to receive light from the source that has been reflected from a facet of the scanning reflector back toward the same facet of the scanning reflector;
a detector adapted to detect ~~light reflected the laser beam after reflecting~~ at least twice from the same facet of the scanning reflector; and
a controller adapted to control ~~the~~ timing of the data, including a start of a scan of the scanning system, responsive to ~~the~~ detection of light by the detector.

12. (Currently Amended) A laser scanning system according to claim 11, wherein the ~~at least one reflector comprises a plurality of reflectors, positioned such that the beam is reflected from the reflector more than twice before being detected.~~ laser beam directed toward the facet of the scanning reflector is separate from a modulated data beam.

13. (Currently Amended) A laser scanning system according to claim [11]12, wherein ~~the scanning reflector comprises a rotating polygon reflector.~~ the modulated data beam reflects only once on the facet of the scanning reflector.

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1 14. (Original) A laser scanning system according to claim 12, wherein the
2 scanning reflector comprises a rotating polygon reflector.
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4 15. (Original) A laser scanning system according to claim 11, wherein the
5 scanning reflector comprises an oscillating reflector.
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7 16. (Currently Amended) A laser scanning system according to claim 12,
8 wherein ~~the scanning reflector comprises an oscillating reflector.~~ the laser beam
9 source is configured to that a modulated data beam reflects once off the facet of
10 the scanning reflector from which the laser beam reflects twice.
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13 17. (Original) A laser scanning system according to claim 11, wherein the
14 laser beam source and the detector are included together in a single housing not
15 encompassing the scanning reflector.
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18. (Currently Amended) A laser scanning system, comprising:

a laser beam source;

a scanning reflector;

a detector adapted to detect light reflected at least twice from a same face of
the scanning reflector; and

~~a mounting element having the laser beam source and the detector but not~~
~~the scanning reflector mounted therein or thereon; and~~

a controller adapted to control the timing of the scanning system, including
a start of scan of the scanning system, responsive to the detection of light by the
~~detector.~~ detector;

wherein a modulated data beam created by the laser beam source reflects
only once on the facet of the scanning reflector.

19. (Original) A laser scanning system according to claim 18, wherein the
scanning reflector comprises an oscillating reflector.

20. (Original) A laser scanning system according to claim 18, wherein the
scanning reflector comprises a rotating polygon reflector.

21. (Original) A laser scanning system according to claim 18, comprising an
additional reflector adapted to reflect light from the source, which was reflected
from the scanning reflector, back onto the scanning reflector.